

We claim:

1           1.       A system for controlled dispensation of active ingredients into an atmosphere, the  
2       system comprising:  
3           a heat-regulating container made entirely of metal and having one or more reservoir  
4       portions, a volatile material comprising active ingredients to be dispensed into the atmosphere  
5       contained within the one or more reservoir portions, and a lower surface having integral leg support  
6       structure; and  
7           a heating device having a heating surface and adapted to receive the heat-regulating  
8       container such that the integral leg support structure is in direct contact with the hot surface, thereby  
9       regulating the temperature of the volatile material in the one or more reservoir portions within the  
10      container.

1           2.       The system of Claim 1, wherein the volatile material is one or more selected from  
2       the group consisting of pesticides and insecticides, insect repellents, fragrances, air-fresheners and  
3       deodorizers.

1           3.       The system of Claim 1, wherein the one or more reservoir portions contains a  
2       porous solid substrate positioned within the one or more reservoirs and wherein the volatile material  
3       is impregnated within the substrate.

1           4.       The system of Claim 1, wherein the volatile material is in a gel form.

1           5.       The system of Claim 1, wherein the container is made of a single heat-resistant  
2       material selected from the group consisting of metal, thermoplastic, and ceramic.

1           6.       The system of Claim 1, further comprising a plurality of integral leg support  
2 structures.

1           7.       The system of Claim 6, wherein the plurality of integral leg support structures are  
2 provided in a zig-zag pattern.

1           8.       The system of Claim 6, wherein the plurality of integral leg support structures are  
2 provided in a solid pattern over an entire lower surface portion of the container.

1           9.       The system of Claim 1, in which the container further comprises handles means  
2 extending from the container for manipulation of the container by a user.

1           10.      A heat-regulating container for dispensing volatile materials into an atmosphere,  
2 the container adapted for use in a heating device having a heating surface at elevated temperature,  
3 the container comprising:  
4           a reservoir portion for containing volatile material to be dispensed;  
5           a lower surface; and  
6           a plurality of integrally formed leg structures extending from the lower surface of the  
7 container for regulating the transfer of heat from a heating surface of a heating device to volatile  
8 material to be dispensed.

1           11.      The container of Claim 10, further comprising a predetermined number of  
2 integrally formed leg structures.

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1           12.       The container of Claim 10, in which the plurality of integrally formed leg  
2       structures each have a predetermined height.

1           13.       The container of Claim 10, further comprising a closure means for retaining the  
2       volatile material in the reservoir portion.

1           14.       The container of Claim 13, in which the closure means comprises an impermeable  
2       film.

1           15.       The container of Claim 13, in which the closure means comprises a semi  
2       permeable membrane.

1           16.       The container of Claim 13, in which the closure means comprises a permeable  
2       membrane.

1           17.       The container of Claim 10, further comprising a volatile material.